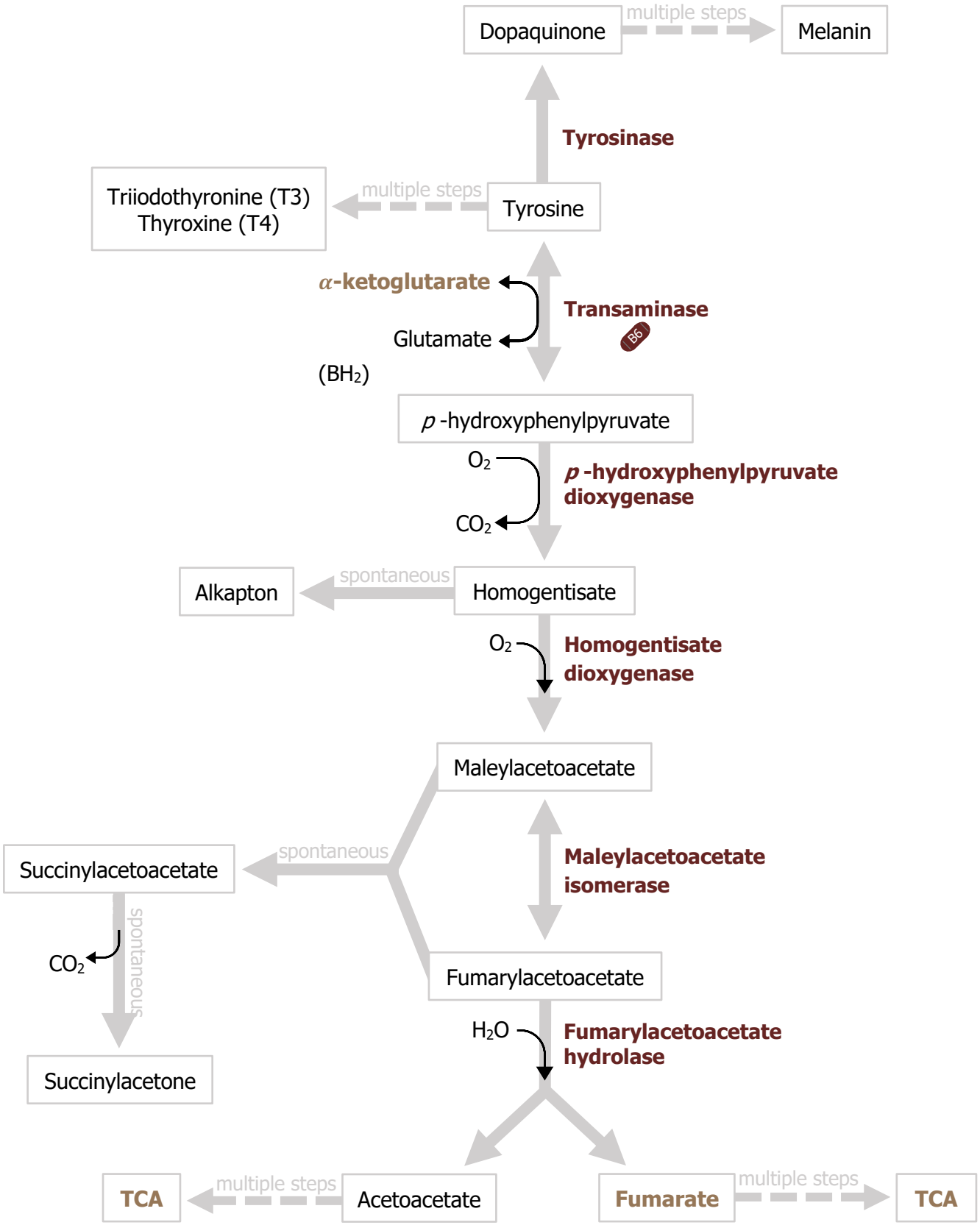
Dopaquinone
multiple steps
Melanin
Tyrosinase
Triiodothyronine (T3)
Thyroxine (T4)
multiple steps
Tyrosine
α-ketoglutarate
Glutamate
(BH2)
Transaminase
B6
p -hydroxyphenylpyruvate
O2
CO2
p -hydroxyphenylpyruvate dioxygenase
Alkapton
spontaneous
Homogentisate
O2
Homogentisate dioxygenase
Maleylacetoacetate
Maleylacetoacetate isomerase
Succinylacetoacetate
spontaneous
CO2
spontaneous
Succinylacetone
Fumarylacetoacetate
H2O
Fumarylacetoacetate hydrolase
TCA
multiple steps
Acetoacetate
Fumarate
multiple steps
TCA